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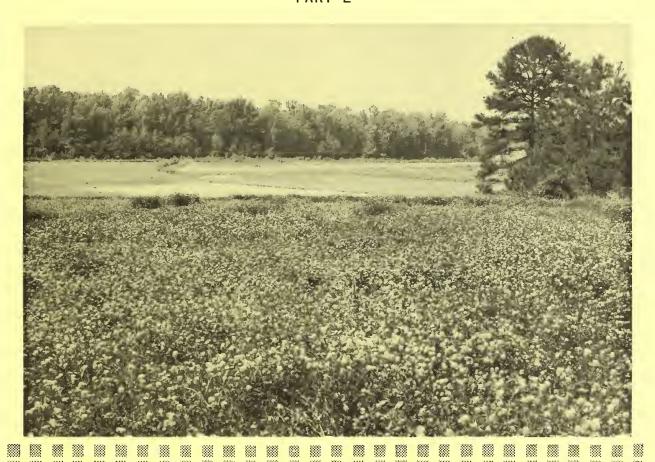
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U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

1969 ANNUAL REPORT OF

# PLANT MATERIALS CENTER

COFFEEVILLE, MISSISSIPPI PART 2



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Organization of the
Soil Conservation Service
Plant Materials Center
Coffeeville, Mississippi

## Plant Materials Center Staff

B. B. Billingsley, Jr., Acting Manager
J. H. Adams Supervisory Biological Technician
Lillian J. Stebbing Clerk Stenographer
Oscar L. Chandler Farm Equipment Operator
Fred W. Jackson Farm Equipment Operator
Jimmie Miller Nursery Worker
James Smith Nursery Worker



## COFFEEVILLE PLANT MATERIALS CENTER ANNUAL TECHNICAL REPORT 1969

### PART II

This report covers the technical activities of the Coffeeville Plant Materials Center for the calendar year, 1969.

The Coffeeville Plant Materials Center is located approximately seven miles west of Coffeeville, Mississippi on the Tillatoba Road. It is situated in the loessial soil resource area and comprises about 195 acres of land leased from the U.S. Forest Service. The principal soils are:

Waverly - Poorly drained acid bottom land with 0 - 2 percent slope.

Grenada silt loam - Moderately well drained upland soil with gentle to steep slope. Erosion is moderate to severe.

Callaway silt loam - Somewhat poorly drained upland soil, nearly level to gently sloping. Erosion is slight to moderate.

Lesser amounts of other soils also occur there, giving varying soil conditions on which plants can be tested.

## Weather Summary

Temperatures of the winter of 1968 - 69 were milder than usual. The summer of 1969 was quite hot, with periods of drought which affected certain crops adversely. Highs of 100 degrees + were recorded in late June. Periods of drought occurred in June, July, and August and rainfall was below normal in the fall of 1969. A monthly rainfall summary for the year follows:

January	3.08	inches	May	3.66	inches	September	3.49	inches
February	6.31	89	June	2.28	19	October	2.00	11
March	4.07	88	July	3.48	11	November	6.08	11
April	7.41	tt	August	3.43	19	December	9.59	11

Total rainfall for the year, 55.04 inches

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AND HERBACEOUS	Poor	Wea		r lanted :	10-24-62	3-25-66	2	CO	Ĉ.	сĂ	<u> </u>	<u> </u>	- 1	#	5-19-61		3-22-65			5-22-64	11-9-65	5-10-62	2-4-66	10-4-68	3-12-64	10-12-61	10-13-61	4-27-62		- 1	4-20-66 4-22-63
- 5	- 2	- 6			387	2349	2350	2181							139	253	942	943	2244						1719	332	333	747	748	1772	2356
GRASSES, LEGUMES,	3 = Good	- Fair	;	Other No. :No	261099			BN 9026		PMT 586			PMT 588		9982	9703	L-54LI IN	11/15	AM 59				F 3813		F 1378				NC 62-15		F 2857 F 836
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Arachis glabrata	162801		4-25-69	PB	m	w	~		<b>±</b>	<b>19</b>
Arachis glabrata v. hagenbe	ckii AM		=	PB	m	w	~		£	<b>#9</b>
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Codes:	GRASS	SSES, LEGUMES,	S, AND	HERBACEOUS	S PLANTS	NTS					
A - Anmal									Д	Bunch	
P - Perennial	- Excel	lent	ZV.	Fair		- Very	Very Weak		S S	Sod	
NG - No Germination	3 - Good		8	Poor	10	- Wint	Winter Kill		Λ		
			MS	-	Growth	Seed	Leaf	Seed	Winter	Matu-	Plant
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Eleocharis sp.,			938	5 63	PB	m	m	m	<b>-</b> 4	Aug.	33-16
			939	5-16-63	PB	m	m	m	~	) =	3.6
Eragrostis ferruginea		BN 12589	3046	5-15-69	NG		ı		l		•
robusta		234218	143	5-7-65	PB		N	N	m	July	31
2		$\sim$	394	5-7-65	PB		m	w	<b>-</b> 1	2	23.1
Eremochloa ophiuroides	<sub>D</sub>	BN 15989	2575	3-17-67	PS	m	w	~	-	Sept	Pros
Equisetum hiemale			2555	2-16-67	Д	ĽΛ	w.	0	<i>-</i> -	4	น
Erlanthus ravennae		BN 8009	2576	3-14-61	PB		·	, (rr)	ì <b>,</b> ⊢	Sent	-רו-סר
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		240157	688	10-24-62	PB	m	'n	m	ا را	ź	1 C
" arundinacea			537	10-15-62	PB	m	m	, <del>, ,</del>	-	=	μ. 1
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<b>C</b>			689	10-5-62	PB	m	<b></b> -1	'n	۱ ႕	2	14
			9	10-24-64	PB	, M	m	, m	<b>~</b>	=	10
		264766	169	2	PB	· (^)	· —	·	<b>-</b> -	2	1.1
		302996	2262	10-27-67	PB	m	v	ľ	ا ،—ا	Juga	
ea ea		203728	2329	2	PB	· (C)	'n	, m	-	June	, ē
2		AM 1420	2410	9-2-66	PB	m	V	· (*)	-	2	31
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		292602	2707	10-30-69	NG						`
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PLANTS
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AND
LEGUMES,
GRASSES,

Code:		GRASSES, LEG	HUMES, A	LEGUMES, AND HERBACEOUS	EOUS PI	PLANTS			В	- Bunch	
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m quadifarium	inm	161886	2033	5-5-65	PB	w	<del></del> 1	-	H	July	-
**		283022	2034	z	PB	m	H	m	Н	=	=
i M Spo,		331.158	3000	5-15-69	NG						•
2 2		331.157	3001	=	NG						
Pennisetum alopecuroides	curoides	BN 339	352	5-1-64	PB	m	m	<del>, -</del> !	ρĄ	Sept.	331
" ciliare	ð	203366	2756	4-2969	AS	m	w	m	10	Aug.	=
Gode a		271603	484	4-1:-64	PS	Н	m	2		Sept.	32
			2728	5-24-68	PS	m	m	ന	w L	Jul-Aug.	m
2		- 8	2818	4	ထ် လ	m	v			Aug	32.
		# # 296	2819	5-22-68	ഗ	m	<b></b> 1		10	*	12.7
		u # 305	2820	z	ഗ	m	<b>–</b> 1		9	=	14
		" # 317	2821	=	ഗ	സ	<b>-</b> -I		20	r	12
2		" Lot A		<b>99-01-9</b>	ഗ	~	m		10	=	1
2		" Lot B		=	മ	w	w		20	z	3
**		n # 318		5-22-68	ഗ	'n	· دب	·rv	10	£	Ē
=======================================		n: # 331		=	വ	M	m	'n	10	Æ	2
2		600T # # 1006		=	മ	w	w	'n	10	#	-
2		4TOT # "		£	ഗ	N	m	ന	20	2	77
2		" # 10 <b>21</b>	. 2826	2	ഗ	w	m	m	10	ä	33.1
2		w # 1036		=	ഗ	v	m	m	10	2	HO
41		01/01 # .II	2828	=	Ø	L	ın	m	10	Ė	3
							L.	1			2

Code:		GRASSES, LEGUMES.	LEGUME	S. AND HERBACEOUS PLANTS	ACEOUS	PLANT	ro			
A - Annual	mal	`							д	- Bunch
P - Perennial	rennial	1 - Excellent	ant	νı	- Fair		9 - Ve	Very Weak	യ	Sod
2	- No Germination	Я		paratrio d	COL	ŀ		빎	>	- Vine
Speries.	pi	Other No.			ດ ນ }	ed. Leaf	af Seed		Matu-	@ ·
PODOCO	D extricts of the promise maintaining this side communities and community and community for an a	S S			Type syl	1gor: roa	•	. Tulury	V: TITY :H	le1ght
Pennisetum	80° 9	Tex.ARS # 10	1043							
			2829	5-2268			w	10	Aug.	រុំ
E	75	# # 10h2	2830	ŧ			٢V	10	=	130
	\$	1901 # 1001	2831	£			m	10	2	1. T.
	din din	# 1062	2832	2			w	10	=	<u>.</u>
=	22	# 1077	2833	#	တ	, m	, M	10	£	. <del>د</del>
=	in the second	# # 1835	2834	2			, <b>L</b>	9	*	[H
=	gar ka	# # 6721	2835	2			, Lr	10	=	 
Ħ	2	m# 67122	2836	2			, TV	101	=	้น
=		~	2837	2	ഗ	, ~	, Z.C	101	s	៶៴៓
E		## 67147A	2838	2	Ø	, w	· m	01	, ,	340
2	=	2	2839	z	ഗ	· M	v	10	ž	v = \
=	O.	m 304751	3122	5- 5-69	တ		· c~		Sept	64°
=	spicatum	337999	2978	5-15-69	В	-	~		4 22	29
=	80	338000	2979	<b>C</b>	<b>A</b>	-	2		=	71
Phalari	Phalaris aquatica x arund.	BN	1897	11~9~65 F	PS	M	6	~	July	184
2	Çer 4ar		1898	#		m	. <b>L</b>	~	2	181
=	arundinacea	F 1208	075	10-29-63PS			~	~	z	231
<b>2</b>	Se v.hi	rtlglumis	2017	5-24-68 I			m	~	Sept.	7
Phlox a	62		2373	5-26-66 F			~	~	Nov.	18"
Poa gla	Poa glancantha	GILO NH	2119	10-22-65	PS		۲,	Ħ	July	18"
Psorale	Psoralea adscendens	238351	2804	5-23-68	<u>Д</u> ,		m	m	Aug.	31
¥	bituminosa	283969	780	5-6-5	PB .		m	M	2	16#
=	=	238352	2880	5-23-68	щ		m	9	Sept	23.1
=	±	246744	2882	=	Д		, m	9	=	2 **
=	r	287920	2886	=			ı	10	=	
=	2	287921	2887	=			, <b>2</b> 0	9	£	-
=	**	302954	2889	2	щ		m	10	2	331
2	cinerea	238353	2805	£	Д		, ZV	10	Aug	, c
2	dentata	246745	2883	z					ò	`
=	eriantha	255746	2885	=			w	10	Sept.	21
E	=	287922	2888	=	PB	7. 7.	, <b>T</b> V	m	Auge	HC F

4-21025 4-70

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Code:	•	GRASSES, 1	LEGUMES,	S, AND HERBACEOUS PLANTS	BACEOUS	3 PLAN	TS				-
A - Annual	nal				,						-Bunch
P - Perennial	ennial	1	lent	ν. 1	Fair		1	Very Weak	ak 	נט נט נט	Sod
NG - No	NG - No Germinations	3 - Good			- 2		- 1	24	(111	>	Vine
				Date Gr	~				Winter Matu-Plant	Matu-P]	Lant
Species		:Other No.	:No.	Planted: T	Type :V	:Vigor :	Prod	r.rod.:	Injury:rity:Height	rity:He	aight
Danglas		1833 1.1	2803	5-23-68	ρο	v	v	~	0.	Senta	171
-	10 10 10 10 10 10 10 10 10 10 10 10 10 1	246247	288	1 =	PB E	\ <b>L</b>	١v	i m			2 - K
Pharam	SD SD	BN 18270	2680	5-24-68	М	' M	\ m	. 0	l <del>(</del> 1	, ,	Prost
Rhyncho	Rhynchosia minima		2943	5-15-69	NG	1	<b>.</b>				
Setaria	Setaria flabellata	300109	2732	5-23-68	Ø	N	2	w	10	Aug.	331
25	geniculata	316422	2899	#	四	w	7	m	10	=	-
=	gerrardi	208303	2073	Ó	PB	m	2	v	ᢧ	=	33-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
E	italica	230136	2081	5-26-66	PB	m	<u>س</u>	<b>س</b>	<b> </b>	=	31
2	macrostachya	217229	2082	=	PB	7	w	w	<u></u>	Jun-Jul	L. 231
2	*	229129	2083	E	PB	N	w	<b>س</b>	<del></del> 1	=	21
<b>5</b>	=	229131	2084	2	PB	אי	w	٣	-1	Ė	231
=	magna griser	BN 17107	2734	$\alpha$	Ø	N	zv.	<u>س</u>	10	Aug.	10
2	neglecta	300110	2548	2-10-67	PB	m	٣	w	m	8	23-1
=	sphacelata	284477	2848	$\alpha$	PB	٣	m	~	7	2	-tr
2	8	31/4859	2849	2	മ	m	۳	<b>س</b>	10	\$	2
2	2	31/1862	2850	2	B	m	٣	w	10	=	127
#	2	314867	2851	£	ф	w	w	w	2	2	31
8	0.1	311,868	2852	Z	ф	m	<b>~</b> I	m	0	=	- IN
=	92	31/1869	2853	#	m	<b>~</b>	m	m	10	=	12
2	2	337,871	2854	£	æ	m	m	~	10	=	13
Z	2	31/4872	2855	=	Д	m	m'	m	10	Ì	23.
2	=	3774874	2856	ŧ	PB	<del></del>	v	m	<u>_</u>	8	-tc
=	2	311,875	2857	#	PB	m	m	m	~	*	121
2	=	31/1877	2858	2	ø	<b>–</b> 1	-1	٣	30	2	-tc
8	2	31/4878	2859	2	PB	m	m	<del> </del>	w	£	121
=	8	2801.25	2890	#	PB	m	_	m	m	2	12.5°
Ξ	=	296007	2891	=	æ	ന	_	m	10	2	Ž,
2	2	296008	2892	2	æ	m	m	ᠵ	10	£	121
=	2	31/4870	2893	2	Д	w	N	w	10	=	7
=		31/4881	2894	ž	PB	w	m	w	2	*	136
=	2	314882	2895	=	PB	2	<b>س</b>	w	Н	=	17

PLANTS
HERBA CEOUS
AND
LEGUMES,
GRASSES,

	-	Flant :Height	īV.	371	7-40	19	- 69- - 63-1	**************************************	19	m	<b>.</b>	<u>.</u>	17	21	, †	31	្នា	• •	21	3.	1,4	<b>.</b> 7	, 7	1,4	17	31	17	87	<u>.</u>	17	- - - - - - - - - - - - - - - - - - -	a.
- Bunch - Sod - Vine		Winter Matu- Injury:rity	Aug.	e e	Sept	Oct	=	2	= :		<b>s</b> :	=	=	2	2	Z	=	Nov.	*	oct	£	2	22	=	Nov.	Oct	£	Sept.	Aug.	=	Sept.	
4 S B		Winte Injur	10	91	À ~	Н	<del> </del>	Н	<b></b> 1 :	<b>-1</b> (	Н.	Н	m	Н	Ħ	<del>~</del> 4	Н	H	Н	Н	<del>,  </del>	H	႕	Н	႕	Н	Н	Н	<b>~</b>	Н		i
TS Very Weak Winter Kill		Seed. Winter Matu .:Prod.:Injury:rity	m	ጥኒ	\ m	m	<u>س</u>	m	m	L()	<b>1</b>	m	m	᠕	m	m	m	m	m	m	m	m	m	Μ	᠕	m	ᢧ	٥	~	ر	<b>ก</b> ก	
ANTS - Ver		Leaf Prod	<i>τ</i> ν.	N.	- 7V	w	Ŋ	W.	<b>ω</b> ,	m)	ואו	N	m	<u>~</u>	᠕	m	~	m	m	m	m	m	m	M	᠕	M	N	m	m	m	ᠳᢧ	
AND HERBACEOUS PLANTS  5 - Fair 9 - Ve  7 - Poor 10 - Wi		Seed. Leaf Vigor:Prod	<i>N</i> .	rv 6	- M	m	m	m	M	LV.	<b>\</b>	~	m	m	᠕	v	m	m	w	m	w	m	m	᠕	᠕	m	7	m	W.	Ŋ	ጣኒሳ	
ERBACE Fair Poor		Growth Type	В	щα	Ba	PB	PB	PB	PB	PB	PB	PB	PB	PB	PB	PB	PB	PB	PB	PB	PB	PB	PB	PB	PB	PB	PB	Д	Д	Д	PB PB	
	- 5	Date Gr Planted: I	5-23-68	2 2	14-16-68	dir eta	5-26-64	5-27-64	2	5-11-66	2 (	5-18-67	er c	=		2	<b>2</b>	=	=	2	=	2	=	<b>GET</b>	=	2	=	14-20-66	11-70-65	<b>=</b>	5-11-66	
LEGUMES,		No.	2896	2897 2898	15,2	228	1746	1747	1748	2227	2229	2h62	2463	2464	2465	2466	2467	2468	2469	2471	2472	2473	2477	2478	21,79	2482	2558	2360	21.74	2203	2218 2219	
GRASSES, LEG 1 - Excellent 3 - Good	underen er	PI or Other No. :		317,884								χ, 30	AM 763	764	292		773	1323		1387	1388							F 3806			PMT 155 PMT 207	•
Code: A - Annual P - Perennial	NG - No Germination	Species	Setaria sphacelata		Sorghastrum nutans	2	22						dia dia	disc des	2	24	6.5	en e	2		<b>T</b>	2	=	<b>4</b> 0		11	=======================================	tina	" pectinata		Sporobolus airoides	

Mode:	GRASSES,		LEGUMES, AND F	ERBACE	AND HERBACEOUS PLANTS	ANTS				
A - Annual		10 to 0 to 10 to 1		1 1 1			17	100	1	Bunch
r - rereminal NG - No Germination	3 = Good	errent d	1 1	Falr		70	Very weak Winter Kill	ear Kill	ממ ממ	Vina
	or	MS		10	Seed.	14-1	Seed	Winter	Matu-	Plant
Species	-51	••	:Planted :	Type	:Vigor:Prod	Prod.	Prode	Injury	f	:Height
		0	1	ç	c	٦.	ı			
Sporobolus arroldes		7550	2-TT-C	T,	η	Λ.	<b>V</b>	=	Sept.	
	PMT 270	2221	=	PB	m	w	w	-1	Ë	
62	PMT 326	2222	=	PB	m	<b>–</b> 1	m	Н	2	2,
43		2223	£	PB	. M	v	<u></u>	-1	June	
. 11	PMT 624	2225		PB	m		'n	-	=	
22	PMT 812	2226	2	PB	m	<u></u>	m	Н	Aug.	" M
Stipa barbata	33 0722	2006	10-30-69	NG					)	ı
Stylosanthes humilis	187098	756	5-15-69	NG						
Tetrachne dregei	300136	2926	å	PB	2	m	᠘	-1	Summer	131
Tetragonolobus palaesti	Ħ	2810	5-15-69	AB	m	<b>7</b> Λ	6	Died ,	•	Prostrat
18	N	2811	=	AB					Died	
6.0	294273	2812	=	AB	v	7	6		E	=
60	294274	2813	2	AB	m	v	. 6		=	=
de d	294275	2814	=	AB	מ	2	. 6		=	=
44	294276	2815	82	AB	m	W	6		=	=
gneindind "	206379	2807	=	AB	m	v	.0		~	=
" requient	244701	2808	=	AB	N	2	6		=	11
siliquosus	308073	2712	10-31-68					10		
. 48	310431	2735	ź					2		
20	204884	2806	5-15-69	AB	v	2	6		Died	=
	287943	2809		AB	ኒላ	2	6		=	2
Themeda anathera	218114	1,78	5-11-67	PB	1	᠘	᠘	-	Aug	221
Australia	281968	1859	5-1-5	PB	m	-	ᢧ	Н	Sept.	
" triandra	206349	1860	-	PB	m	᠘	-	_	2	231
2	207932	1863	***	PB	m	Ŋ	m	m	Aug.	121
	208198	1867	2	PB	᠘	m	v	m	July	3.
£	276070	1870	e	PB	m	᠕	m	m	Aug.	23t
Tricholaena monachne	166381	2801	5-24-68	PB	m	m	m	10	=	3.5
Tridens brasiliensis	310319	290I	ė,	PB	-1	m	m	-	=	rice H
n muticus	241079	2900	8	AB	N	2	m	10	=	-1

		1 8	:Height		•					124		8#	124	16"	12"	184	12#		31			<u>,</u>	19	۰,9	•9	•9	19			<u>-</u> 1		-	 	-
<b>E</b>	Bunch	Winter Matu-	Injury:rity	,	Disc.	E	Died		Disc	Aug.	<b>a</b>	Ħ	=				July	Died	Aug.	July	Sept.	Aug.	=	=	=	2	=			June	Ħ	£	æ =	•
- Vine	1 1	Wint			-1	-1				႕	<b>~</b>	~	-1	-1	~	႕	-	႕	m	~	~	<b>~</b> I	~	-	~	Н	<b>-</b> -1			~	<b>~</b> l	Н	<b>~</b> ⊢	4
-	n N H	Seed	Prod.						<b>/</b>	7	6	0	0	0	.0	6	0		m	2	᠕	χV	ΣV	᠕	m	0	<b>L</b> i Y			~				
70	Very Weak Winter Kill		.Prod.		Ö\	0			w	~	m	m	ᢧ	m	'n	. W	m	~	m	m	m	႕	m	M	w	m	m			N	<u>_</u>	w.	ւռ	^
PLANTS	1 1	Seed.	.Vigor		Ŋ	w			N	႕	m	m	m	m	m	m	m	ᢧ	m	m	m	ᢧ	m	m	<b>~</b> I	m	m			N	m	w.	ᇇᄁ	^
CEOUS	10	Growth	Type			AB	AB	NG	AB	PB	PB	PB	PB	PB	PB	PB			PB		PB	PB	PB	PB	PB	PB	PB		NG	AB	AB	AB	AB	AD
AND HERBACEOUS	Fair Poor	Date G	.Planted:	``	10-31-68	=	=	#	2	-25-		5- 64	4-28-64	2	~				10-26-67	5-11-64	3-12-62	z	=	2	#	11-2-62	14-7-4	8	10-31-68	=	=	=	= =	;
LEGUMES,	7V C		.No.		2713	2714	2715	2927	2716	338	1624	1626	1627	1628	1629	53 1734	2116	2717	329	34.7	1,20	421	422	423	424	746	1726	2950	2928	2230	2737	2747	2742	(41)
GRASSES, LEG	1 - Excellent 3 - Good		Other No.	(	283999	284003	28400h	300148	308082	241117	284621	250989	251210	253200	260249	BN 14733-		300147	$\alpha$	BN 1144-61	F 134		F 814	F 134	AM 316			NC 69-2	286489		BN 16458	308107	314260	CONOTO
Code:	P - Perennial NG - No Germination		Species		Trifolium ambiguum		22	" butchellianum	" incarnatum	m medium		der der	der der		# #		de de	eneger "	w vesiculosum	Tripsacum dactyloides	42		22	<b>6</b> 2	22		20	Triticum compositum	Vicia amoena	2 lathyroides	de la companya de la	" lutea laevigata	michauxii	רמשדמזומדמ

Code: Winter Injury - 1 - 0 20% 3 - 21 40%	- 41 -	SHRUBS 60% 80%	AND TRE	ES - 81 100%	Z	NG - No Gerr	Germînation	
Species	PI or :Other No	MS No:No.	Date De :Planted:di	Deci- Ever- Insect dious:green:Injury	1 . 1	Winter Seed Ma :Injury:urity	Seed Mat-Plant urity :Height	Plant :Width
Alnus glutinosa " mayīti " mgosa	Mi 823 317356	2583 2902 2936	3-16-67 4-29-68	X X X		. 0ct.	8	ı †ı
Ampelopsis brevipenduncul.  Berberis julianae  mentoriensis Callicaroa americana	NC 67-14 BN 15905	2665 2117 2687 2687	3-18-68 3-8-55 3-29-67	: x x x x	ddd	Nov.	1 17	4-5"
Castanea alnifolia N		2167	11-19-60				151	101
n . molissima n n	BN 8299 R8-T15	20 50	1-2-61		145	Sapt.	888	1282
: # # : # #	R5-T9	55 57	: # <u>#</u>		7 (7)	-	222	161 161
	R3-T21 S 876	04 %	: = =		-1 F=4 F	er der der	222	121
n pumila n sp.	AM 120	2681	1-10-68		-1 L2 L	=	22.	, v , r
		157 2428		4 H H H	d Fild r			12:
Castanopsis chrysophylla	5603	2430	169	ජ	-1 F-1 F		ike :	
cornus recrea mas cofficinalis Corylus, americana n	BN 14626 BN 14627	2573 2573 2574 2138	(// _	x x x x x y	H H H H	Nov.	~ - 년() 년() - :	. V. H. O. D.
Cotoneaster racemiflora Crataegus Sp,, " " "	297597 AM 2460	2936A 2202 2460 2460		¢ × × × ď	4	-1 -1	. 5 C C S S S S S S S S S S S S S S S S S	

No Germination Germination & Died Sced Ma-Plant Plant turity :Height:Width	1½" 1°	ot. 111 113 113 113 113 113 113 113 113 113	אר דייין אר איני איני איני איני איני איני איני א	Sept. 251 21 0ct. 331 221 Nov. 161 121 121 121 Aug. 251 121
NG - GD - Winter :Injury:	<i>х</i> ч			и <b>н</b> нчччччччч о <u>х</u> ф
81 100% Ever-Insect :green:Injury	X L	더러더러 다 더 더 ㄷ	××	
AND TREES 9 - Date Deci-	11-25-64 1-11-66 <b>x</b> 4- 69		REE EEEE	11-21-65 x 3-15-68 x 3-6-65 x 3-6-68 x 3-68 x 3-6-68 x 3-68 x 3-6-68 x 3-68 x 3-
SHRUBS 60% 80% MS	1848 : 2231 3047	- 4	Ŏ Ŏ	282 282 282 282 382 383 383 383 383 383
5 - 41 • 7 - 61 • PI or :Other N	9~69 ON		EN 13459-6 BN 13460 NY 2409 275073 AM 1880 254592 316703 NC 68-8	AM 1601 BN 8318 99907 122586 AM 259
Code: Winter Injury 1 - 0 . 20% 3 - 21 - 40% Species	Ounninghamia lanceolata Blaeagnus multiflora "	m umbellata n n n n n n n n	ninima cropoda	Hyperleum galloides Leucaena retusa Lonicera maackii  " podocarpa " sp., Malus baccata " hupehensis " sp., " spectabilis

and Died Flant :Flant Height:Width	
90	サングでするのである。 できるののはままして 2000 トートーングできる こうしょうしょうしょうしょうしょうしょうしょく
Germinated Seed Ma-	Nov.
GD - (Winter Injury	паналапанананана паналапана
ttion Insect Injury:	
Germination Ever-Inse	× ×××××× × × × ×
REES -81100% 1 - No Ger Deci - Ev	Died Died XXXX
AND T 9 NC Sate Plante	3-13-67 11-18-66 12-13-65 14-9-62 14-9-62 14-9-62 12-17-65 2-2-67 12-17-65 2-2-67 12-17-65 2-2-67 12-17-65 12-17-65 13-5-68 1-15-69 1-15-69 1-15-69 1-15-69 1-15-69 1-15-69 1-15-69 1-15-69 1-15-69 1-15-69 1-15-69 1-15-69 1-15-68 1-15-69 1-15-69 1-15-69 1-15-69 1-15-69 1-15-69 1-15-69
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١	<u>د</u> ا	7		:Other No.		BN 13679		BN 13671		BN 13684	BN 13663	<u>1</u>		_				BN 13669	266477	NY 2936	Mich 388	BN 13675	Mich 389	BN 8950	BN 13560	$u_{\lambda}$	BN 13693			13681-	BN 13683	J.					AM 1878	) 	
Code: Winter Injury	1 = 0 • 50%	3 - 21 40%		Species	Salix gracilis textoris	" hastata	" incana	" interior	* irrorata	80	medemii	" muscina	n oxica	" purpurea	æ ====================================		des des	***		lis		**	" " lambertiana	rpurea nana	W W Sericea	osmarin.		" seringeana	" syrticola	" tominii	w viminalis	" x chrysostala	x molissima	nervis	Sasa pygmaea		Symphoricarpos sp. Thea sinensis	shrub	

#### PART II -

## Progress Reports on Projects

Phalaris arundinacea, reed canarygrass, MS 540, was planted in a row 33 feet long on a continuous grade from 6 inches above water to 6 inches below water. Observations concerning water tolerance and seed production were made. The 6 inches of water did not retard growth appreciably; but few, if any, seed were produced anywhere along the row.

Hemoracallis sp., daylily. Eleven accessions were compared for vigor, spread, beauty, ground cover, etc. Four accessions do not vary considerably, but MS 2165, which is being increased, looks best. It makes a dense ground cover, spreads well by tubers, and has attractive blossoms.

Lespedeza spp. Four accessions of Lespedeza were compared for value as plants to vegetate abandoned mine spoils, stabilize critical areas, and control erosion on cut slopes of roadbanks and similar areas. These four plants are:

Lespedeza cuneata, Nasu 10, sericea, MS 119 common sericea, MS 2146

- intermixta, MS 280
- " virgata, spreading lespedeza, MS 126

Lespedeza virgata, MS 126, has looked best from an overall standpoing of vigor, spread, ground cover, growth characteristic, seed production, etc.

Tests have been under way for 20 months to determine the best date and depth to plant five accessions of plants: Paspalum nicorae, MS 906; Echinochloa holubii, MS 924; Lespedeza virgata, MS 126; Fanicum virgatum, MS 155; and Paspalum notatum, MS 131. The plantings were made at 0", 1/4", 1/2", 1" and 1½" depths each month and when complete, will cover a three year period. Results gained to date are inconclusive; but, generalities for each are shown as follows:

Echinochloa holubii, Limpopograss, MS 924. Germination was better at the  $1/4^n$ ,  $1/2^n$  and  $1^n$  depths than at plantings either deeper or more shallow. Survival at all depths was rather constant.

Paspalum nicorae, Amcorae brunswickgrass, MS 906. Germination does not differ greatly between any of the five depths. Survival one year after germination is much better at the  $1^{11}$  or  $1\frac{1}{2}^{11}$  planting depth.

## Progress Reports on Projects - continued

Lespedeza virgata, spreading lespedeza, MS 126. Germination at the 00, 1/40 and 1/20 depths has been considerably better than at deeper plantings. Survival has been rather constant at all depths.

Panicum virgatum, Pangburn switchgrass, MS 155. Germination has been best at depths of  $1/2^n$ ,  $3/4^n$  and  $1^n$ . Survival at the  $1\frac{1}{2}^n$  depth has not been so good as at the more shallow depths.

Paspalum notatum, Wilmington bahiagrass, MS 131. Germination at the O' depth has been inferior to that of deeper plantings. Survival at all depths has been quite constant.

Spartina patens, MS 2360, was planted tegetatively in rows grading from 6" above water to a 6" water depth to check for seed production. Seed production was poor the entire row lengths.

Fescue. Eight accessions of fescue were planted in 5 x 20 ft. plots in October, 1967, on Grenada silt loam soil. They are being compared for total forage production, sod forming ability, and summer growth. To date, there is very little visual difference in sod forming ability and only a small amount of summer growth from any of the eight. The results of a May 19, 1969 clipping are shown below:

### Festuca arundinacea:

		Pound	ls
Variety	MS No.	Green Weight	Air Dry Weight
Ky 31 Artren Goar Arflag Alta Uruguay Fawn Kenwell	1601 539 2656 538 2658 2329 2657 2659	57 51 43 3/4 41 41 38 30 <sup>1</sup> / <sub>2</sub> 29 <sup>1</sup> / <sub>2</sub>	16 15 <sup>1</sup> / <sub>4</sub> 15 11 <sub>4</sub> 13 12 10 <sup>1</sup> / <sub>4</sub> 9 <sup>1</sup> / <sub>2</sub>

Lespedeza japonica. Three accessions of Lespedeza japonica, MS 1643, MS 1850, and MS 2503 were clipped in May and August to determine their ability to withstand a clipping regime. These plants have not made good recovery after the second clipping and forage production appeared to be reduced considerably.

## Progress Reports on Projects - continued

Four accessions of plants, Echinochloa holubii, Panicum hemitomon, Salix hastata, and Salix interior, were planted in a stream channel near Coffeeville in 1966 for testing as streambank erosion control plants. Listed are some observations as to the merits of each plant:

Echinochloa holubii, limpopograss, MS 924. This grass maintained a good stand and spread is fair, average 2 feet width. A fair amount of silt has built up in plants but some washing is occurring between plants and bottom of slope.

Panicum hemitomon, Maidencane, MS 2138. Plaints maintained a good stand and spread well, average 4 - 6 feet. There is a good build-up of silt in plarts. The maidencane is making some spread up slope.

Salix hastata, Malberd willow, MS 863. Plants maintained a good stand and there is a very good build-up of silt within the stand. Soil sloughing from top of slope catches behind plants and grasses, indiangrass, little bluestem, bermudagrass, etc., are invading on this area.

Salix interior, Sandbar willow, MS 880. Stand is good but not as dense as that of Halberd willow and plants are taller. This plant is rhizomatous and spreads well. Soil Cloughing from top of slope is catching behind plants and is being invaded by grasses and broadleaf plants.

Pennisetum spp. A grass adapted to the calcareous areas of East Mississippi and West Alabama, capable of producing good quantities of forage is needed. In an attempt to find such a grass, 23 accessions of buffelgrass, Pennisetum spp., obtained from Dr. Bashaw at Texas A & M University, were planted in rod rows in 1968. These grasses all winter killed at Coffeeville during the winter of 1968-69. This was a mild winter and some of these grasses were expected to withstand the winter here. Perhaps a combination of cold and soil moisture in excess of that from their usual range caused these plants to die.

Echinochloa: A test was made to find a plant capable of producing good quantities of waterfowl food when planted as late as mid-July. Four accessions of Echinochloa were planted July 23, 1969 in triplicate rows for comparison of yields. Due to shattering and bird use, exact yields were not determined but the plants are listed in order from best to least yields from observation:

## Progress Reports on Projects - continued

## Echinochloa

None of the plants had yields comparable to that which can be obtained with MS 181, Echinochloa frumentacea, when planted in early June. All plants did mature seed, however.

PI or Amount Planned Area in Amount Harvested Purpose Other No:Seed(lbs):Plants(ea):Production:Seed(lbs):Plants(ea):of Increase	(See App.A 22, 5	20, 12	22, 12	12	22	22	12, 22	50 sq.ft. 10,11,4	10, 11, 4	1947 sq.ft. 10,11, 4	, 11, 11, 1 <sub>4</sub>	12
arvest lants(	77		50	650		75	0	50	0	194	180	
Amount Harvested Seed(1bs):Plants(ea		15			2 oz.			sq.ft	200 sq.ft.	<b>~</b>	<b>#</b>	3,850
Area in	)¹ r.		100° r.	200° r.	1 rod row	100° r.	500° r.	5,000 sq.ft. 5000 sq.ft	200	5000	<b>6</b> 06	
Are Produ	3001		100	200	Н.	100		sd.ft.	1.ft.	2	1.ft.	
nned nts(ea)	300		0	0		0	5,500	5,000	200 sq.ft.	2000	900 sq.ft.	
Amount Planned ad(1bs):Plants(		700			2 oz.							1600
No : See	1-14					~	2	<u></u>	σ.	φ	φ	BN 8963-57
ses I or ther	NC 67	263393				297597	AM 2302	AM 1283	AM 128.	BN 4198	BN 419	BN 89
Seed Increases MS PI or No. :Other	2665 NC 67-14	528 26339.	2933	7	2378	2936A 297597	246 <b>0 AM</b> 230	2371 AM 128 (Reg.)	Cynodon dactylon 2136 AM 1283 Tifdwarf bermudagrass, (Non- Reg)	Cynodon dactylon 2372 BN 419 Tufcote bermudagrass (Reg.)	dactylon bermudagrass (non-reg.)	181 BN 89

Purpose	, 7, 21	, 12, 22	3, 12, 22	1, 2, 4,6	, 2, 4, 6	, 2, 4, 6	, 15	, 15		22, 6	22	12
d Pûr	₹,	£,	Г	М	٦,	1,	19,	19,	12			
rveste ants(e		325	180							2,000	0	575
Amount Harvested	190			150	5 02.	р oz•	1.5	17,800	625			
Area in oduction:See	1/2 ac.	100° r.	4001 r.	16 ac.	500° r.	500° r.	1/10 ac.	70 ac.	3 ac.	1/2 ac.	50° r.	300° r.
eases - continued PI or Amount Planned Area in Amount Harvested Pûrpose : Other No.:Seed(1bs):Plants(ea):Or Increase		900	0009							7000	200	0
continued Amount Planned o.:Seed(lbs):Plants	200		,	2000	10	10	30	18,000	0017			
ases - con PI or Other No.:	207924	BN 12090		234558	209-385	234218	F 1079		163453			
d Incre MS No.:	924	432	2941	268	394	143	539	1091	128	2165	2946	2937
Part 11 - Plant and Seed Increases  MS PI of Species No. : Other	Echinochloa holubii Limpopograss	Elaeagnus umbellata Autumnolive	Elaeagnus umbellata Autumnolive	Eragrostis curvula Weeping lovegrass	Fragrostis robusta Big lovegrass	Eragrostis robusta Big lovegrass	Festuca arundinacea Artren fescue	Festuca arundinacea Ky 31 fescue	Glycine ussuriensis Wild soybeans	Hemoracallis sp., Day 111y	Now vomitoria Youpon holly	Juglans nigra Black walmut

PART II - Plant and Seed Increases	d Incre	- 1	continued					
Species	MS No.	PI or Other No.:	Amount Planned Seed(1bs):Plants	lanned lants(ea):	PI or Amount Planned Area in Amount Harvested Purpose Other No.: Seed(1bs):Plants(ea):Production:Seed(1bs)Plants(ea):of Increase	Amount Harvested ed(1bs)Plants(ea)	urvested ants(ea)	Purpose
Juglans nigra Black walmt				0	300° r.		625	(See App.A) 12
Lespedeza cuneata Sericea	21,46		000 و بلا		60 ac.	4,200		1,3,4,6
Lespedeza virgata Spreading lespedeza	126	218004	300		2 ac.	550		1, 3, 4, 6
Lonicera maackd Amur honeysuckle	2161	BN 8318		300	400' r.		350	12, 22
Malus hupehensis Crabapple	150	122586		8500	400' r.		0092	12, 22
Panicum hemitomon Maidencane	2138	NC 64-4		111,000	l ac.		23,000	5, 7
Panicum virgatum Wabasso switchgrass	17	F 686	8		100f r.	1/2		6, 16, 17
Panicum virgatum Stuart switchgrass	18	AM 181	0		100° r.	• zo 9		6, 16, 17
Panicum virgatum Pangburn switchgrass	155	BN 14668	300		3 ac.	320		6, 16, 17
Panicum virgatum Kanlow switchgrass	1415	PMK 160	8		100f r.	l oz.		6, 16, 17
Panicum texanum Texas millet	358	F 639	700		2 ac.	65		12

PART II - Plant and Seed Increa	d Incre MS No.	sases – continued PI or Amor Other No.:Seed(1	tinued Amount Planned Seed(lbs):Plants(	lanned lants(ea)	<pre>eases - continued Pl or Amount Planned Area in Amount HarvestedPur Other No.:Seed(1bs):Plants(ea):Production:Seed(1bs):Plants(ea):of</pre>	Amount Har	Amount HarvestedFurpose	pose Increase
Faspalum notatum	131	AM 1284	3000		20 ac.	470	μ, 1	4, 18, 14
Phalaris arundinacea Reed canarygrass	540	F 1208	rH		3008 r.	0	19	
Phyllostachys bissetti Bisset bamboo	464	143540		Q & &	300° r.	8	830 rh. 8, 1 49 pl.	11
Phyllostachys meyerii Bamboo	1,98	116768		Q • 8 •	300° r.	ίν.	530 rh 8, 11 29 pl	
Phyllostachys meyerii Bamboo	200	AM 315		Q • Ø	300° r.	201	1020 rh. 8, 1 53 pl.	11
Pistacia chinensis Chinese pistache	2182	21970		300	200° r.	76	700 22, 12	27
Pittosporum tobira Tobira pittosporum	2678	NC 67-23			50° r.		2 <b>1*</b> 22	
Prunus caroliniana Carolina laurelcherry	2693			1500	1,00° r.	39	625 22,	12
Prums caroliniana Carolina laurelcherry	2947			100	75° r.	50	200 22, 1	12
Firethorn	2670			0	1001 r	"1	32* 22	
Pyracantha coccinea Scarlet firethorn	366	AM 170		0	400° r.	12	125* 22	

\* Carried over from previous year

:Seed(lbs):Plants(ea):Production:Seed(lbs):Plants(ea):of Increase Purpose  $^{\circ}$ 1, 12, 3, 4, 2 ~ ~ 22 22 22 12 12 72 *γ*, ١, ν, Amount Harvested 6800 2560 100 51% \$2 11\* \$91 125 0 \* 0 Area in 1/8 ac. 1/8 ac. 120° r. 100 r. 751 r. 30' r. 4001 r. 401 r. 101 r. 401 r. lotr. Amount Planned 12650 11650 100 0 0 0 0 0 0 0 PART II - Plant and Seed Increases - continued 杰 BN 13666-63 BN 13679-63 EN 13671-63 :Other No. NC 68-20 NC 68-21 262 AM 305 AM 306 257022 276070 74222 PI or AM 2939 1870 2940 2906 880 863 881 No. 370 371 372 SE SE 9 Salix glaucophylloides Firm blueleaf willow Quercus myrsinaefolia Robinia pseudocacia Black locust Quercus virginiana Live oak Quercus virginiana Themeda triandra Themeda Quercus pumila Runner oak Quercus pumila Quercus pumila Runner oak Halberd willow Salix interior Sandbar willow Evergreen oak Salix hastata Runner oak Live oak Species

PART II - Plant and Seed Increases - continued  MS PI or Am  Indens flava  Tridens flava  Purpletop triodia  Trifolium nigrescens  Ball clover  Trifolium wesiculosum  Winca major  Vinca major  Vinca major  Zizaniopsis miliacea	144 744 989 329 3r	206926 233782	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	l,000	Area in roduction:Sulportion:Sulp	Amount eed(1bs):P	Amount Harvested Purpose of (1bs):Plants(ea):Increase  110	urpose of ncrease  4, 6  6, 4  19, 20
Giant outgrass	646		72		100 sq.ft.		<b>5</b>	), 65
Mulching material	(FP)			350 Tons	175 ac.		158 Tons	٦

#### PART II-

### 1.B - Production and Weed Control Notes

Simazine 80W was applied to several fields of perennial grasses at the rate of 2.4 pounds active ingredients per acre during February 1969. Control of crabgrass was very poor whereas in previous years this compound had given good control of this grass.

This crabgrass infestation, combined with periods of drought during the summer, appeared to be the cause of very low yields of Wilmington bahiagrass seed.

Annual grass infestations in fields seeded to bahiagrass are a major problem in preventing good establishment. Two herbicides were applied to a 1969 planted field of Wilmington bahiagrass at the Coffeeville Plant Materials Center. The two used were believed to have properties making them suitable for use on bahiagrass. The results from each follows:

Treflan: One and 1/2 pints of ingredients in 35 gallons of water was applied and incorporated just prior to seeding.

Germination of bahiagrass took about one week longer than that of the control plot but a good stand was obtained. Control of grassy weeds was very good, but broadleaf weeds were poorly controlled. Bahiagrass plants in the Treflan treated area grew and spread much better than those in the control area.

<u>Tupersan</u>: Tupersan was applied at the rate of 5 pounds of active ingredient per acre just prior to planting.

Germination of bahiagrass was adversely affected and only a partial stand was obtained. Control of both grasses and broadleaf weeds was only fair. Growth and spread of bahiagrass was better than in the control area, but not so good as in the Treflan treated area.

Treflan at  $l\frac{1}{2}$  pints liquid per acre and Sesone at 2.71 pounds active ingredient per acre were tested on a field of reseeding peanuts, MS 528, to observe their usefulness as a pre-emergence herbicide. Good stands

of peanuts were obtained in both areas but Treflan appeared to be the better of the two. It gave more complete and longer lasting control of unwanted plants, particularly grasses.

A three acre field, which had been summer fallowed two years, was planted broadcast to Cbiwapa millet at the rate of 15 pounds of seed per acre on June 4, 1969. No fertilizer was applied at planting time but 60 pounds Nitragen per acre was applied as a top dressing when plants were about 6" high.

Seed yield was approximately 1300 pounds per acre, even though periods of drought occurred during the growing season. The two years of fallowing and/or broadcast planting almost completely eliminated weeds. Yields were almost doubled that of any obtained in previous years when plantings were in rows.

## Combine Settings for Seed Harvest

## Echinochloa frumentacea Chiwapa japanese millet

Cylinder speed	<b>60</b>	1200 - 1400 RPM
Cylinder to concave	spacing	1/4" - 1/2"
Fan valves	un un	1/3 open
Adj. chaffer	•	1/2 open
Finishing sieve	•	9/64"

### Glycine ussuriensis Wild reseeding soybean

Cylinder speed	-	960 RPM
Cylinder to concave	spacing	5/8" - 1/2"
Fan Valves		Open
Adj. chaffer	-	1/2 open

## Lespedeza virgata Spreading lespedeza

Cylinder speed Cylinder to concave	spacing	1000 - 1200 RPM 1/4" - 1/2"
Fan valves	600	1/4 open
Adj. chaffer	600	1/2 open
Finishing sieve	•	9/64"

## Combine Settings for Seed Harvest - continued

## Panicum texanum Texas millet

Cylinder speed	-	1200 - 1400
Cylinder to concave	spacing	1/4" - 1/2"
Fan valves	-	1/3 open
Adj. chaffer	-	1/2 open
Finishing sieve	-	5/32"

## Panicum virgatum Switchgrass

Cylinder speed	-	1200 - 1400 RPM
Cylinder to concave	spacing	3/8" - 1/2"
Fan valves	•	1/4 open
Adj. chaffer	•	1/4 to 3/8 open
Finishing sieve	-	9 /64"

## Paspalum notatum Wilmington bahiagrass

Cylinder speed	-	1200 - 1600 RPM
Cylinder to concave	spacing	3/16" - 14"
Fan valves	•	1/4 open
Adj. chaffer	-	1/2 open
Finishing sieve	-	9/64"

## Trifolium vesiculosum Meechee arrowleaf clover

Cylinder speed	•••	1200 - 1600 RPM
Cylinder to concave	spacing	1/4" - 1/2"
Fan valves	-	1/3 open
Adj. chaffer	-	1/2 open
Finishing sieve	-	7/64"

Pure Seed and Germination Percentages of Seed Lots Tested

Species	%:Germination	% :Hard Seed	%:Firm Seed	%:Pure Seed
Echinochloa frumentacea	68.5		12.0	67.50
n holubii	18.0		47.0	98.35
Eragrostis curvula	86.5	0.0		97.15
Glycine ussuriensis	82.5	3.0		92.20
Lespedeza virgata	57.5	4.5		96.40
Panicum texanum	5.5		71.0	94.70
" virgatum	71.5	0.0		81.90
Paspalum notatum	90.0	0.0		73.19
11 11	70.0			40.75
Trifolium vesiculosum	14.5	77.0		99.54

## Information - Articles

Several articles were written in 1969 which publicized the Coffeeville Plant Materials Center. The titles of three such articles and the magazines in which they were printed are listed:

Kight, Troy G. 1969. Plant Centers Find New Crops for You. Frogressive Farmer, Mississippi, Arkansas, and Louisiana Ed. 84(4): 72E and 72F

Knight, W. E., V. E. Ahlrich, and Morris Byrd, 1969. Registration of Meechee Arrowleaf Clover. Crop Science 9:393

Leard, H. H. 1969. Mississippi's Super Clover. Mississippi Farmer. August issue

Articles covering meetings and group visitations at the Center were printed in newspapers of a local nature but some did appear in papers of wider distribution.

